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We claim:

A method of heterogeneous liquid-phase crystallisation of diamond by way of adsorption interaction between dehydrogenated constituents of bitumen and a hydride surface of a material, wherein the hydride surface of a catalyst is formed by hydrogen chemisorption during high-

temperature and catalytic dehydrogenation of polydisperse high-molecular constituents of bitumen tars and asphaltenes, followed by adsorption transfer of said asphaltenes to the crystalline condition, diamond.